

# 4 Reasons Why Misconfigurations Occur

1

## The cloud is inherently programmable.

Cloud infrastructure is driven by APIs, which enable developers to scale up and spin down large amounts of infrastructure via code. As easy as it is to make infrastructure changes, it is also just as easy to introduce misconfigurations.



2

## The cloud has enabled a “sprawl” of new services and technologies.

When concepts such as microservices are combined with new technologies such as containers, Kubernetes, and serverless Lambda functions, there are many more resources to manage than just traditional servers, networks, and databases.



3

## The cloud features fundamentally new technologies that are quite different than what are found in physical data center environments.

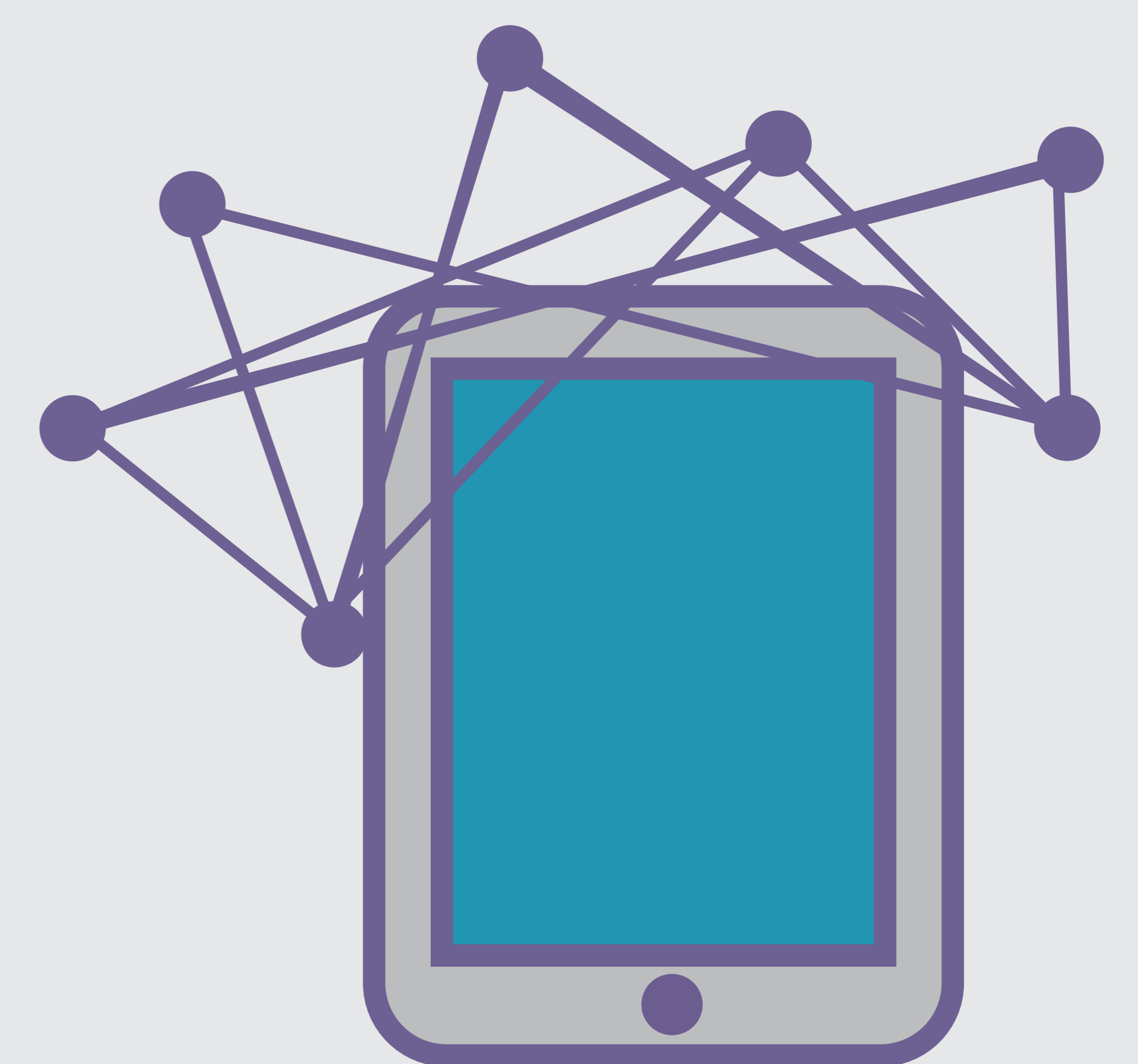
For example, IAM permissions enable users to access resources in an account regardless of network segmentation. IAM therefore can facilitate a new type of lateral movement that cannot be detected with traditional security tools.



4

## The size and complexity of enterprise environments make it incredibly difficult to know what is running where.

Typical enterprise cloud environments can contain thousands or tens of thousands of resources, regions, and accounts. It can be very easy for a developer to create the wrong resource, be too liberal with permissions, or lose track of where critical resources are stored.



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